

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A projection system for image representation with comprising:

- a display ~~(61)~~,
- at least one lamp ~~(10)~~, and
- at least one sensor ~~(7)~~ for generating a sensor signal for the detection and compensation of changes in the a luminous flux provided by said at least one lamp ~~(10)~~, as well as with and
- an optical component ~~(31, 310)~~ arranged in a light path between the lamp ~~(10)~~ and the display ~~(61)~~, which
- wherein the optical component allows-is configured to allow a first light component to pass through and reflects a second light component, such that one of said light components is directed at the display ~~(61)~~ and the other light component is directed at the

sensor ~~(7)~~ arranged outside the light path, and

wherein the sensor is arranged behind a diaphragm element which lies in an imaging or focusing plane of a light component focused onto the display.

2. (Currently Amended) A The projection system as claimed in claim 1, wherein the optical component is a deflection mirror ~~(31)~~ 310).

3. (Currently Amended) A The projection system as claimed in claim 2, wherein the deflection mirror is a dichroic mirror ~~(31)~~ with a high reflectivity and a low transmissivity, and the sensor ~~(7)~~ detects the light component transmitted by said dichroic mirror.

4. (Currently Amended) A The projection system as claimed in claim 1, wherein the sensor ~~(7)~~ is arranged such that it lies in an imaging or focusing plane ~~(B)~~ of a light component focused onto the display ~~(61)~~.

Claim 5 (Canceled)

6. (Currently Amended) A projection system ~~as claimed in claim 1~~ for the representation of color images through time-sequential projection of color strips onto the display (61), with comprising:

at least one lamp,

at least one sensor for generating a sensor signal for the detection and compensation of changes in a luminous flux provided by said at least one lamp, and

an optical component arranged in a light path between the lamp and the display,

wherein the optical component is configured to allow a first light component to pass through and reflects a second light component, such that one of said light components is directed at the display and the other light component is directed at the at least one sensor arranged outside the light path, and

an optical system for color separation, wherein the optical component is a dichroically coated deflection mirror (31) in one of the color channels (R, G, B).

7.(New) The projection system of claim 6, wherein the dichroic mirror has a high reflectivity and a low transmissivity, and the at least one sensor detects the light component transmitted by said dichroic mirror.

8.(New) The projection system of claim 6, wherein the at least one sensor is arranged such that it lies in an imaging or focusing plane of a light component focused onto the display.

9.(New) A projection system comprising:

a display;

a lamp;

a sensor configured to generate a sensor signal for the detection and compensation of changes in a luminous flux provided by the lamp, the sensor being arranged behind a diaphragm element which lies in an imaging or focusing plane of a light component focused onto the display; and

an optical component arranged in a light path between the lamp and the display, wherein the optical component is configured to allow a first light component to pass through and reflects a second

light component, such that one of said light components is directed at the display and the other light component is directed at the sensor.

10.(New) The projection system of claim 9, wherein the sensor is arranged outside the light path.

11.(New) The projection system of claim 9, wherein the optical component is a deflection mirror.

12.(New) The projection system of claim 11, wherein the deflection mirror is a dichroic mirror with a high reflectivity and a low transmissivity, and the sensor is configured to detect the light component transmitted by said dichroic mirror.

13.(New) The projection system of claim 9, wherein the sensor lies in an imaging or focusing plane of a light component focused onto the display.